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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/813,270	03/31/2004	Meng-An Pan	58268.00348	5391
	7590	EXAMINER		
8000 TOWERS	CRESCENT DRIVE	LE, NHAN T		
14TH FLOOR VIENNA, VA 2	22182-6212	ART UNIT	PAPER NUMBER	
			2618	
		MAIL DATE	DELIVERY MODE	
			10/16/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No. Applicant(s)							
Office Action Summary			10/813,270		PAN, MENG-AN				
			Examiner		Art Unit				
			NHAN T. LE		2618				
Period fo	The MAILING DATE of this commun or Reply	ication appe	ears on the o	cover sheet with the c	correspondence ac	ldress			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).									
Status									
1) 又	Responsive to communication(s) file	ed on 18 Jur	ne 2008						
′=	Responsive to communication(s) filed on <u>18 June 2008</u> . This action is FINAL . 2b) This action is non-final.								
3)		<i>'</i> —			secution as to the	e merits is			
٥,١	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Dispositi	on of Claims		•	,					
· ·	•								
•	Claim(s) <u>1-4 and 7-11</u> is/are pending in the application.								
	4a) Of the above claim(s) is/are withdrawn from consideration.								
'=	Claim(s) is/are allowed.								
·	Claim(s) <u>1-3 and 7-10</u> is/are rejected.								
•	Claim(s) <u>4, 11</u> is/are objected to.	otion and/or	alastian ra	vuirom ont					
اـــا(٥	Claim(s) are subject to restric	and/or	election rec	quirement.					
Applicati	on Papers								
9) 🔲	The specification is objected to by th	e Examiner.							
10)	10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.								
	Applicant may not request that any obje	ction to the d	rawing(s) be	held in abeyance. See	e 37 CFR 1.85(a).				
	Replacement drawing sheet(s) including	the correction	on is required	I if the drawing(s) is ob	jected to. See 37 C	FR 1.121(d).			
11)	11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority u	ınder 35 U.S.C. § 119								
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 									
2) Notic 3) Inform	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (F nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	PTO-948)		1) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal F 6) Other:	ate				

DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 1. <u>Claims 1, 7, 8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kunieda et al (US 5,726,974) in view of Holden et al (US 20010001759)</u>

As to claims 1, 7, 8, Kunieda teaches a method, comprising: filtering a signal with a filter (see fig. 1, 102, col. 6, lines 55-67, col. 7, lines 1-14); measuring image rejection and DC offset of the filtered signal (see fig. 1, 103, I and Q, col. 6, lines 55-67, col. 7, lines 1-14); and wherein the filtering, measuring and adjusting is repeated until a compromise between DC offset rejection and image rejection is achieved and wherein the compromise is reached when the DC offset rejection is within acceptable tolerances and image rejection meets pre-specified requirements (see fig. 1, col. 5, lines 25-57). Kunieda fails to teach wherein the filter is BPF and adjusting a center frequency of the band-pass filter. Holden teaches wherein the filter is BPF (see fig. 1, 132, 146, abstract, paragraphs 0022-0024, 0034-0036) and adjusting a center frequency of the band-pass filter (see fig. 1, 132, 146, abstract, paragraphs 0022-0024, 0034-0036). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to provide the teaching of Holden into the system of Kunieda in order to achieve the accurate tuning in the filter circuitry.

Application/Control Number: 10/813,270 Page 3

Art Unit: 2618

2. Claims 2, 3, 9, 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kunieda et al (US 5,726,974) in view of Holden et al (US 20010001759) in view of Vinn et al (US 6,441,682).

As to claims 2, 3, 9, 10, the combination of the combination of Kunieda and Holden fails to teach wherein the band-pass filter comprises two cross-coupled low pass filters; wherein the cross-coupling includes cross-coupled variable resistors. Vinn teaches wherein the band-pass filter comprises two cross-coupled filters (see col. 5, lines 55-61); wherein the cross-coupling includes cross-coupled resistor (see col. 7, lines 4-21). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to provide the teaching of Vinn into the system of Kunieda and Holden in order to adjust the center frequency.

Allowable Subject Matter

3. Claims 4, 11 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

As to claims 4, 11, the applied reference fails to teach wherein the adjusting is done by varying the resistance of the cross-coupled variable resistors as cited in the claim.

Response to Arguments

4. Applicant's arguments with respect to claims 1-4, 7-11 have been considered but are most in view of the new ground(s) of rejection.

Conclusion

Application/Control Number: 10/813,270 Page 4

Art Unit: 2618

5. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to NHAN T. LE whose telephone number is (571)272-

7892. The examiner can normally be reached on 08:00-05:00 (Mon-Fri).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Duc Nguyen can be reached on 571-272-7503. The fax phone number for

the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

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USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Nhan T Le/

Patent Examiner, Art Unit 2618

Nhan T. Le